PHILIP MORRIS USA

RESEARCH AND DEVELOPMENT DEPARTMENT

GERMANY TEST #166

MR4-06ZG
MR6-06ZG
PM8-06ZG

DISTRIBUTION

Mr. H. Cullman	Mr. W. G. Longest
Mr. R. R. Haldimann	Mr. F. A. Lowman
Mr. M. Hausermann (3)	Mr. H. Maxwell
Mr. W. G. Lloyd	Mr. J. von Wyss

WRITTEN BY: R A Tanner

APPROVED BY: J F Nicholas

DATE: December 13, 1976

2001054158

Source: https://www.industrydocuments.ucsf.edu/docs/tsvy0004

GERMANY TEST #166

The following cigarette brands from Germany (Munich) were received for testing on November 15, 1976. These cigarettes were of October, 1976 production.

Marlboro Long Size 20's (Box) - Italy
Marlboro King Size 20's (Soft Pack) - Italy
Philip Morris Multifilter 100 20's (Soft Pack) - Italy

The Marlboro long size cigarettes were not different from the previous average in any of the characteristics tested.

The Marlboro king size cigarettes were different from the previous average only in total reducing sugars which returned to the level of Test #161.

The Philip Morris Multifilter 100 cigarettes were not different from the previous average in any of the characteristics tested.

2001054159

Source: https://www.industrydocuments.ucsf.edu/docs/tsvy0004

GERMANY TEST #166

	Marlboro Long Size 20's (Box) - Italy			Marlboro King Size 20's (Soft Pack) Italy			Philip Morris Multifilter 100 20's (Soft Pack) Italy	
	Current	Prev. Avg.	U.S.[2]	Current	Prev. Avg.	U.S.[2]	Current	Prev. Avg.
Smoke								
Butt Length, mm	25	25	26	27	27	28	33	33
FTC Tar, mg/cigt.	19.5	18.8	17.5	18.9	18.6	17.9	17.3	17.9
TPM, mg/cigt.	23.1	23.5	21.5	22.3	22.8	21.9	19.5	20.8
Nicotine, mg/cigt.	1.19	1.18	1.01	1.20	1.19	1.05	1.05	1.18
Water, mg/cigt.	2.4	3.5	3.0	2.2	3.0	2.9	1.1	1.7
Puffs/cigt.	8.4	8.2	8.0	9.1	9.1	8.6	9.9	10.5
Filtration Eff., %	43	45	47	47	47	48	49	50
Cigarette								
Total RTD, in. of H_2O	4.2	4.1	4.6	4.6	4.6	4.9	5.2	4.9
mm of H_2O	107	104	116	117	117	124	132	124
Static Burn. Time, min.	7.4	7.5	7.7	7.1	7.5	7.6	7.2	7.8
Length, mm	79.4	79.4	79.6	84.3	84.3	84.5	98.9	98.8
Circumference, mm	25.2	25.1	24.9	25.1	25.1	24.9	24.7	24.8
Diameter, mm	8.0	8.0	7.9	8.0	8.0	7.9	7.9	7.9
Paper								
Porosity, sec.	12	13	22	14	12	21	27	26
Filter								
RTD, in. of H_2O	2.6	2.6	2.8	2.8	2.9	2.9	2.8	2.9
mm of H_2O	66	66	71	71	74	74	71	74
Inner, in. of H_2O	-	-	-	-	-	-	1.6	1.6
mm of H_2O	-	-	-	-	-	-	41	41
Outer, in. of H_2O	-	-	-	-	-	-	1.2	1.3
mm of H_2O	-	-	-	-	-	-	30	33
Length, mm	17.8	18.0	19.0	19.9	19.9	20.0	25.0	25.2
Inner	-	-	-	-	-	-	12.5	12.6
Outer	-	-	-	-	-	-	12.5	12.6
Weight, g	0.12	0.12	0.14	0.13	0.13	0.15	0.25	0.25
Inner	-	-	-	-	-	-	0.17	0.17
Outer	-	-	-	-	-	-	0.08	0.08
Carbon, mg/plug	-	-	-	-	-	-	73	74
Tipping paper length, mm	22	22	23	24	24	25	30	30
Filler								
Total alkaloids, %	1.58	1.58	1.50	1.54	1.57	1.49	1.26	1.28
Total reducing sugars, %	8.0	7.2	6.7	7.4	6.0[3]	6.7	10.8	9.6
Wt. of tob., 1,000 cigts., g	812	808	730	862	865	770	931	969
1,000 cigts., lbs.	1.7880	1.7781	1.6076	1.8980	1.9041	1.6956	2.0498	2.1340
Rod Density, g/cc	0.261	0.262	0.244	0.267	0.268	0.245	0.260	0.269
[1]C.V., cc/10 g	32	30	35	32	31	36	37	34
C.V., cc/10 g (Corrected to 12% O.V.)	36	36	39	37	38	39	38	37
[1]Oven Volatiles, %	13.3	14.1	13.7	13.6	14.3	13.4	12.2	12.9

[1]Equilibrated at 75°F and 60% R.H. for 48 hrs.
[2]Data from C.I. No. 11-76.
[3]Results of Test #165, dated November 10, 1976, where a change was noted.

2001051160

Source: https://www.industrydocuments.ucsf.edu/docs/tsvy0004